<ul> <li>Record Nr.</li> <li>Autore</li> <li>Titolo</li> <li>Pubbl/distr/stampa</li> </ul>	UNINA9910830957603321 Ramstorp Matts Introduction to contamination control and cleanroom technology [[electronic resource] /] / Matts Ramstorp Weinheim ; ; New York, : Wiley-VCH, c2000
ISBN	1-281-76407-8 9786611764074 3-527-61312-9 3-527-61313-7
Descrizione fisica	1 online resource (182 p.)
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Introduction to Contamination Control and Cleanroom Technology; Contents; 1 Contamination control - an introduction; 1.1 Introduction; 1.2 Contamination control; 1.3 History; 1.4 Standardization; 1.4.1 Good Manufacturing Practice (GMP); 1.5 High levels of knowledge are of vital importance; 1.5.1 Fifty years of contamination control; 1.5.2 The source, dispersion and deposition of con- taminants; 1.5.3 Air cleanliness; 1.6 Conclusions; 2 Contaminants; 2.1 Introduction; 2.2 Cleanliness; 2.3 Contaminants; 2.3.1 Particulate contamination; 2.3.2 The particle content of air 2.3.3 Chemical contaminant2.3.4 Physical risk factors; 2.3.5 Sources of contamination; 2.3.6 The dispersion and spread of contaminants; 2.3.7 How can contaminants be transferred from their sources?; 2.4 Cleanliness requirements; 2.5 Microorganisms; 2.5.1 Bacteria; 2.5.2 Algae; 2.5.3 Fungi; 2.5.4 Protozoa; 2.5.5 Viruses; 2.5.6 Growth of microorganisms; 2.6 Control of microorganisms; 2.7 Conclusions; 3 Testing methods; 3.1 Introduction; 3.2 Analytical methods; 3.3 The surrounding air; 3.4 Cleanrooms; 3.4.1 System for air handling; 3.4.2 Classification; 3.4.3 Control aspects

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	<ul> <li>3.5 General particle analysis3.6 Measurements according to US Federal Standard 209 E; 3.7 Measurement of hygienic parameters in a cleanroom; 3.8 Microbiological monitoring of air; 3.9 Active sampling; 3.9.1 The Andersen Sampler; 3.9.2 The Reuter Centrifugal Sampler; 3.9.3 The Slit Sampler; 3.10 Passive sampling; 3.11 Sampling surfaces in cleanrooms and clean zones; 3.12 Conclusions; 4 Cleanrooms and clean zones; 3.12 Conclusions; 4 Cleanrooms and clean zones; 4.1 Introduction; 4.2 Definition of a cleanroom; 4.3 Classes of cleanroom; 4.4 Occupancy states; 4.5 The meaning of the cleanroom classification; 4.6 US Federal Standard 209 E</li> <li>4.7 British Standard 52954.8 ISO &gt;209'; 4.9 Classification of airborne particles according to ISO 14644-1; 4.10 Cleanliness testing within cleanrooms; 4.10.1 Preparations for measurements; 4.10.2 Measurement and evaluation; 4.10.3 Reporting; 4.10.4 Control program; 4.11 Classification of pharmaceutical cleanrooms; 4.11.1 Factors determining the cleanliness of a cleanroom; 4.12 Different types of cleanrooms; 4.12.1 Conventionally-venulated cleanrooms; 4.12.2 Unidirectional flow cleanrooms; 4.12.3 Airflow and air quantity; 4.13 Cleanrooms and clean zones; 4.14 Working in clean zones</li> <li>4.14.1 Working in deanroonis and clean zones4.14.2 Maintenance and safety; 4.14.3 Systems for cleanroom production; 5.2 The purpose of cleaning; 5.3 Standards and practices; 5.4 Cleaning; 5.4.1 Preventive cleaning; 5.4.2 Active cleanling; 5.5 Cleaning responsibility; 5.6 Classification of surface cleanlines; 5.7 Basic cleaning; 5.8 Cleaning program; 5.9 Control of cleaning methods; 5.10 Cleaning techniques; 5.11 Cleaning methods; 5.11.1 Dry methods; 5.11.2 Wet cleaning methods; 5.12 Cleaning methods; 5.11.2 Wet cleaning methods; 5.12 Cleaning methods; 5.13 The Zinner circle 5.14 Elimination of microorganisms</li> </ul>
Sommario/riassunto	Contamination control is being used by more and more industries where the highest level of cleanliness and hygiene is of vital importance. This book covers the basic principles of contamination control and cleanroom technology from a holistic point of view. It deals with cleanliness and hygiene and their effects on the outcome of a process, reflecting the latest results from both scientific and practical points of view. The following topics are covered:contaminants and how they are measuredcleanrooms and clean zonescleaning and decontaminationcleanroom clothingthe impact